

The Kit

AA Rechargeable Batteries

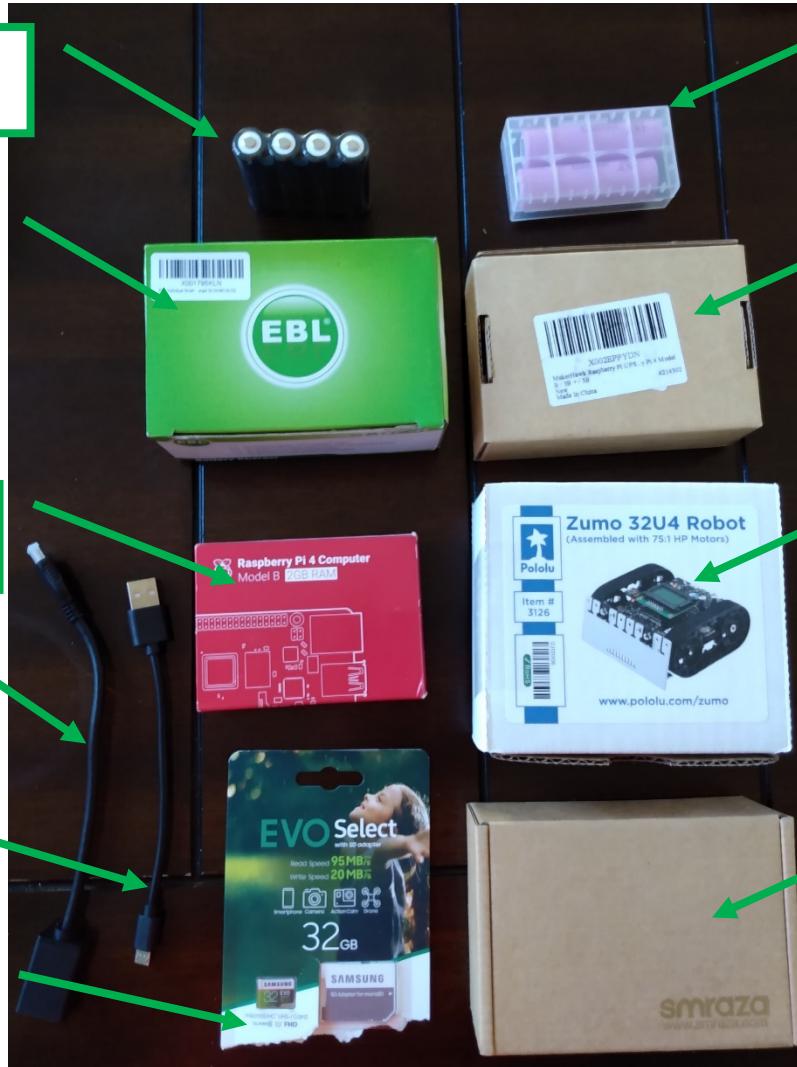
Battery Recharger

Raspberry-PI 4B

HDMI
Micro<->Standard

USB-A <-> USB Micro

32Gb SD Card



1875 Li-Ion Batteries

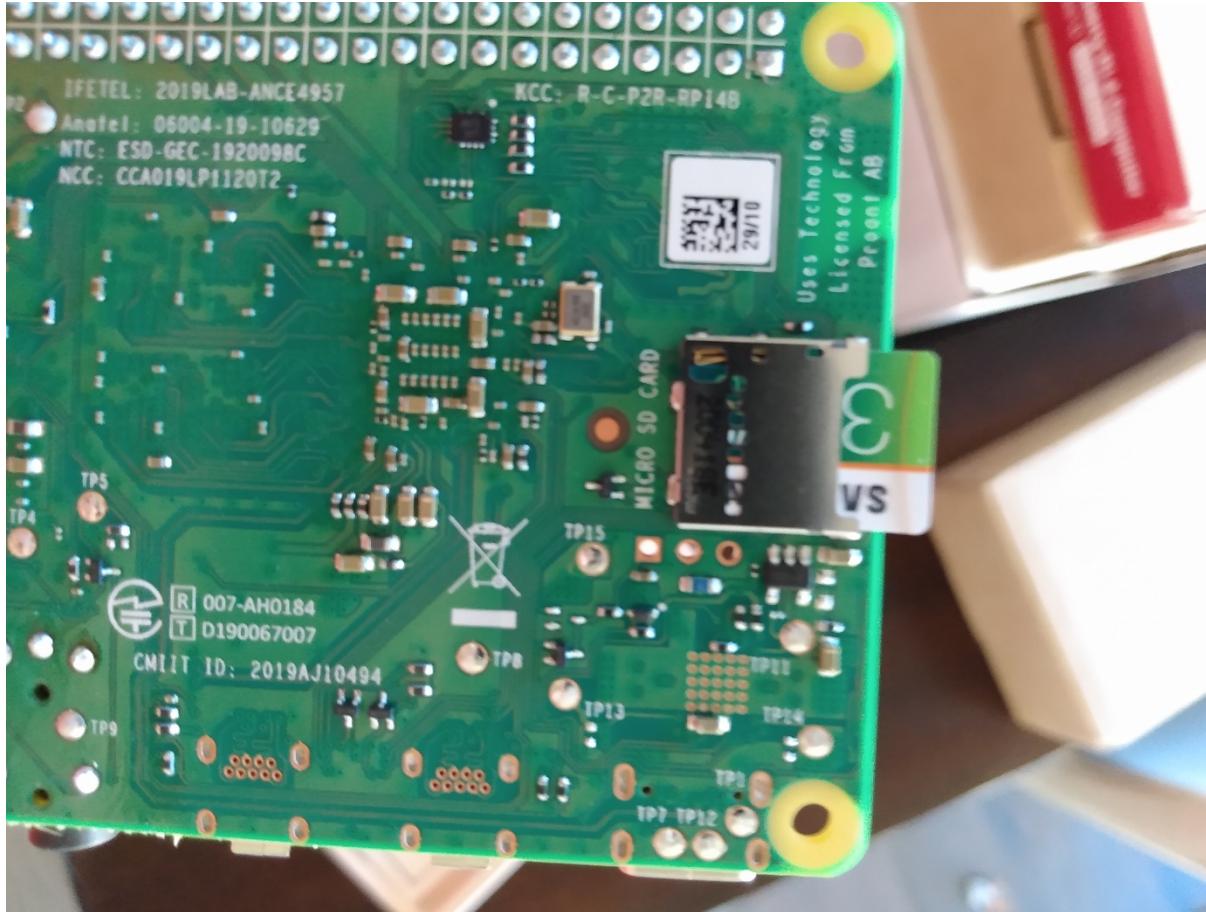
R-PI Power Supply

Zumo Car Kit

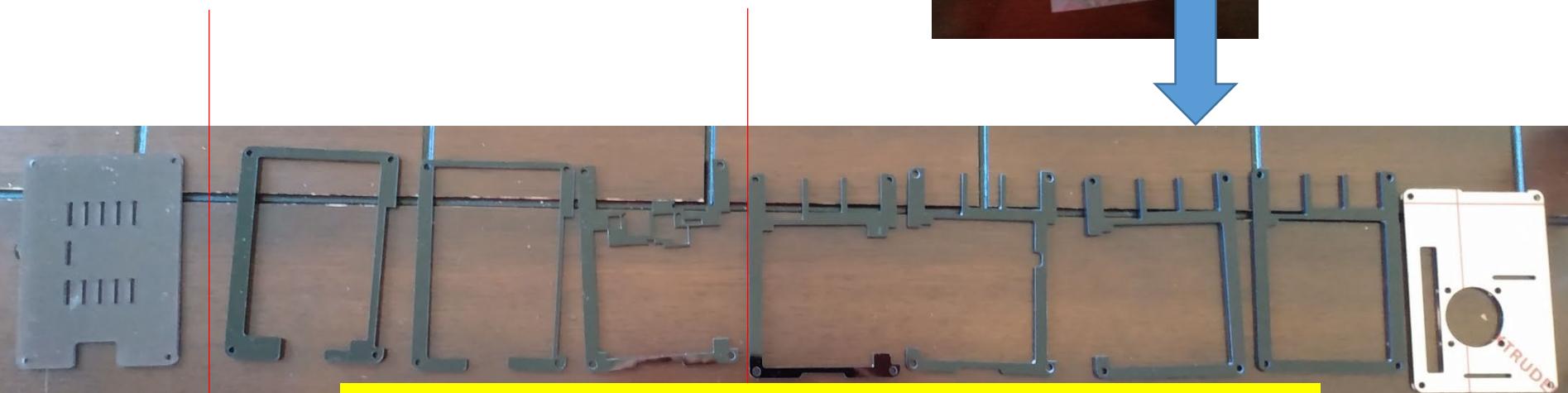
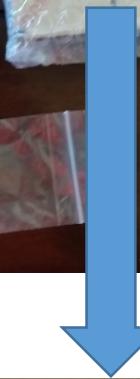
Case

Flash the SD card and install in PI

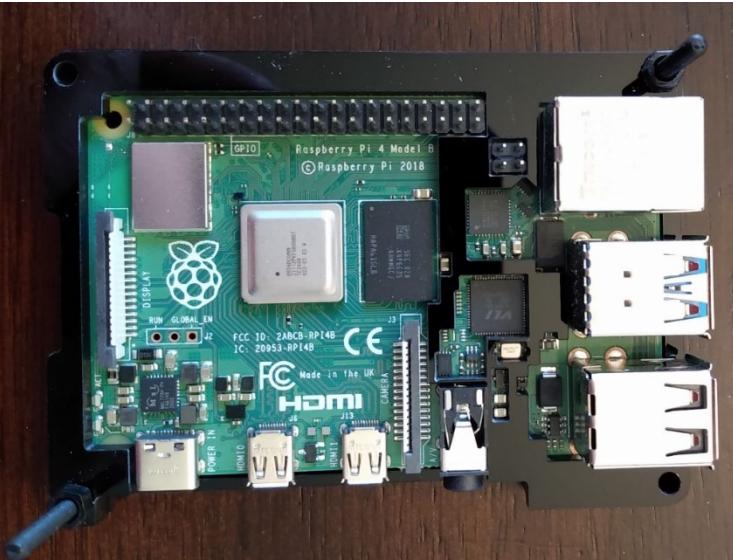
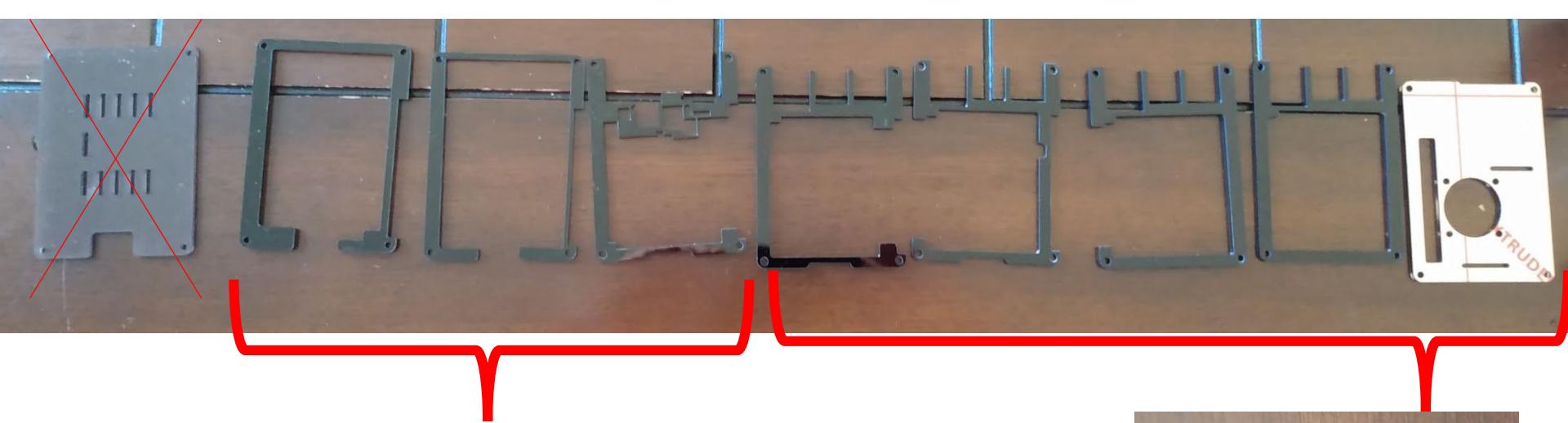
OS: Raspbian – Directions on website
<https://www.raspberrypi.org/software/>



Case needs to be modified to allow use of the R-PI mounting holes.
First – Partially assemble housing



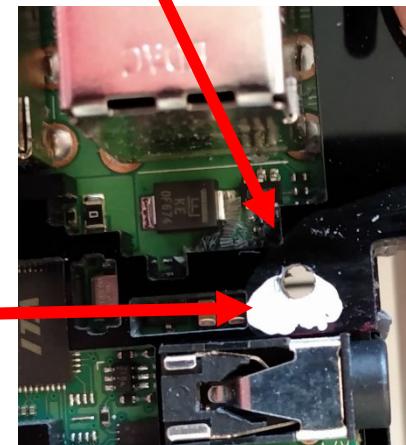
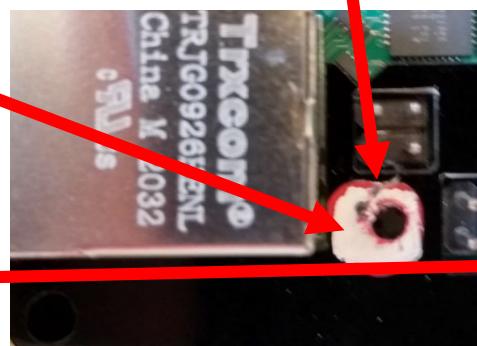
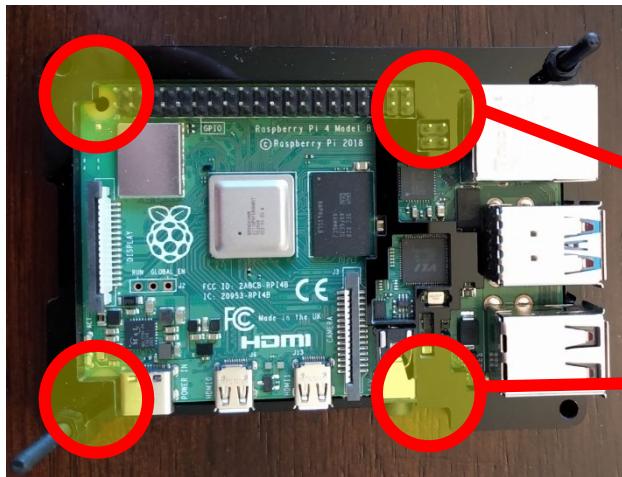
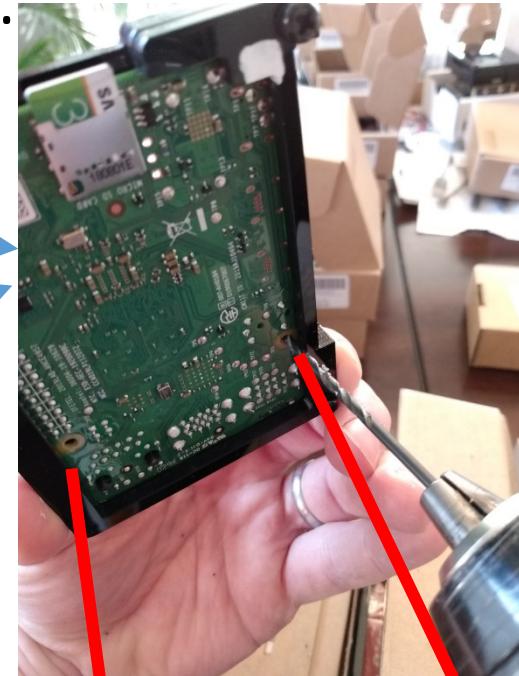
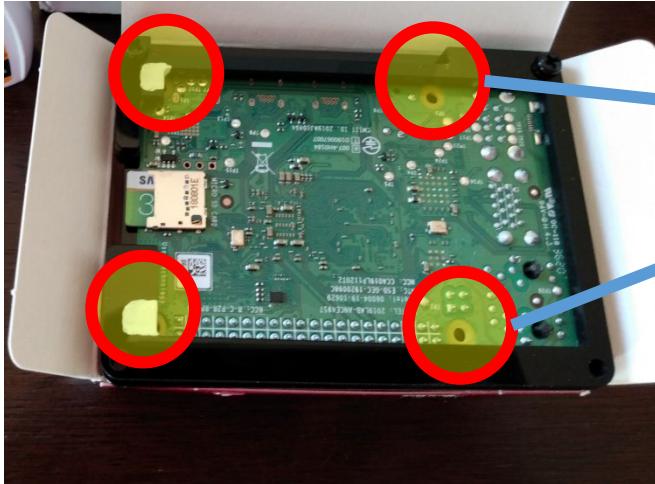
Don't actually take it apart you Just want to split it in half.



Install the fan on the top plate.
Note the Orientation of the leads

Mark Locations to Drill/Mod

We need to have enough room for mounting screw and 2.5mm stud clearance.



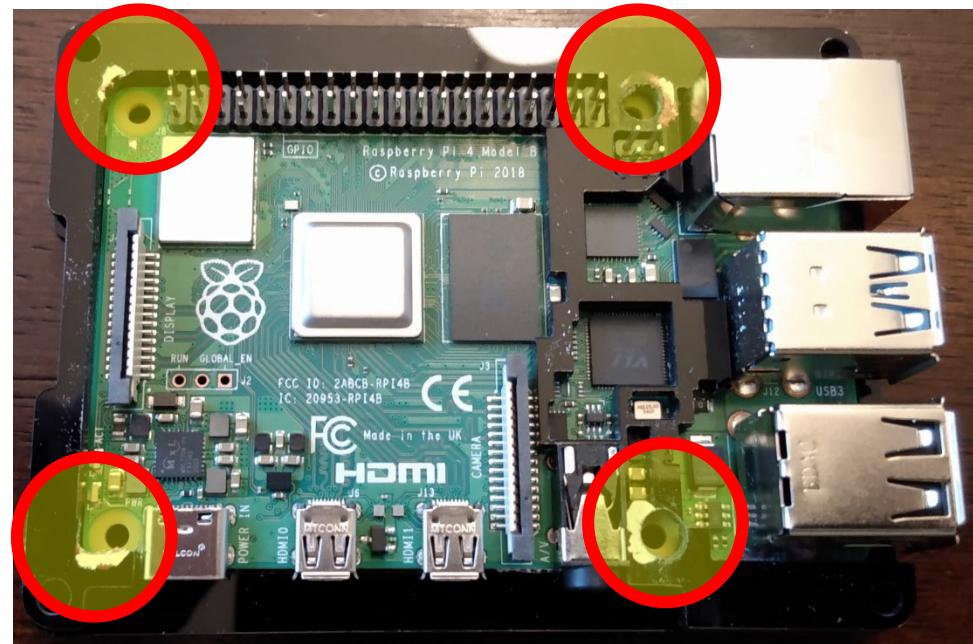
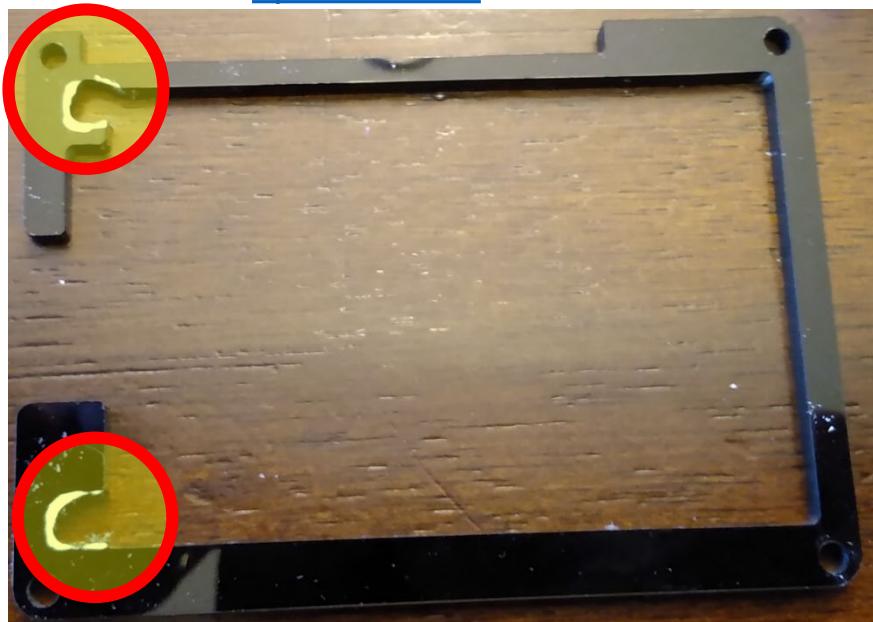
Please be careful when using power tools! Make sure your setup is secure and never cut/drill towards yourself!

Mods Done! (I used a Dremel to help)

Cut out these, I used a spiral cutter -

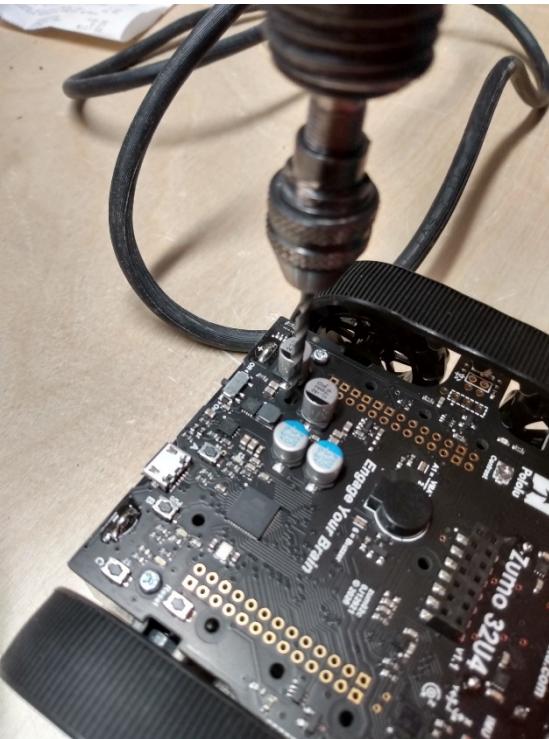
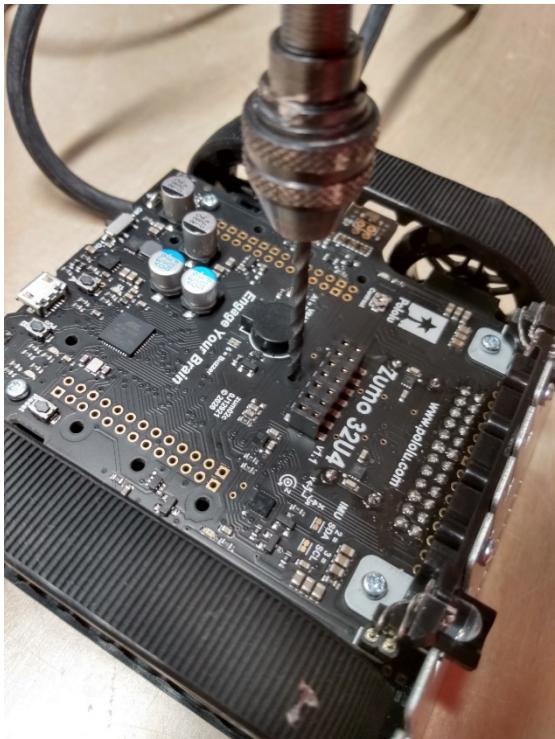
<https://www.youtube.com/watch?v=RTpOAznxI70>

Drill out these Carefully
(If it snaps its not a problem)

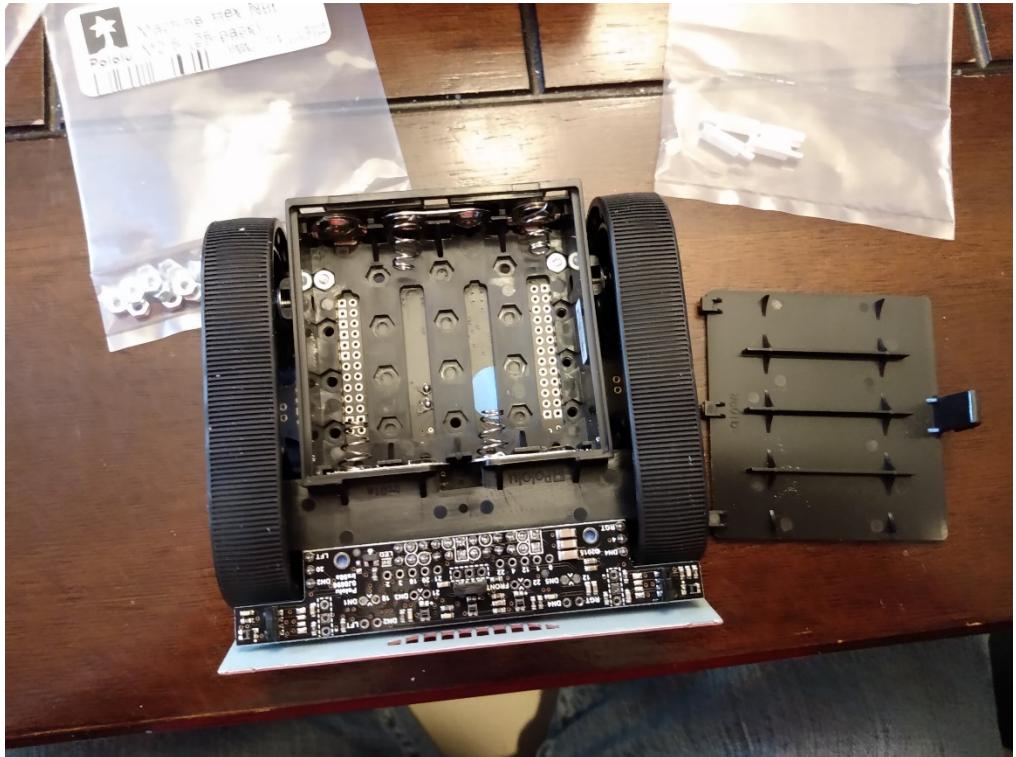


Do a fit check while you've got your tools out...

These 3 holes need to be drilled out to fit a 2.5mm stud. Find the smallest drill that will do and be VERY careful not to damage the rest of the board! – Smallest bit larger than 3/32 should do.
(Size 41-7/64 or metric 2.5 or 2.75 bit) – I actually found this was easier to do with the dermal with a drill bit.



Don't put away that drill yet!

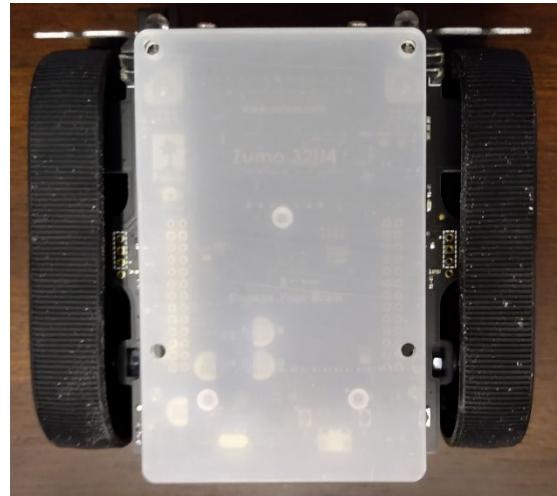


Mount the Studs

R-PI Power Supply Box



Orientation Matters, put the long end at the USB side. Front end just back from the metal plate (in this it is a bit too close, you'll need room for the stud nut, but don't worry -- you can flex the front grate and get it to fit during assembly either way.)



Mark Then Drill out Holes

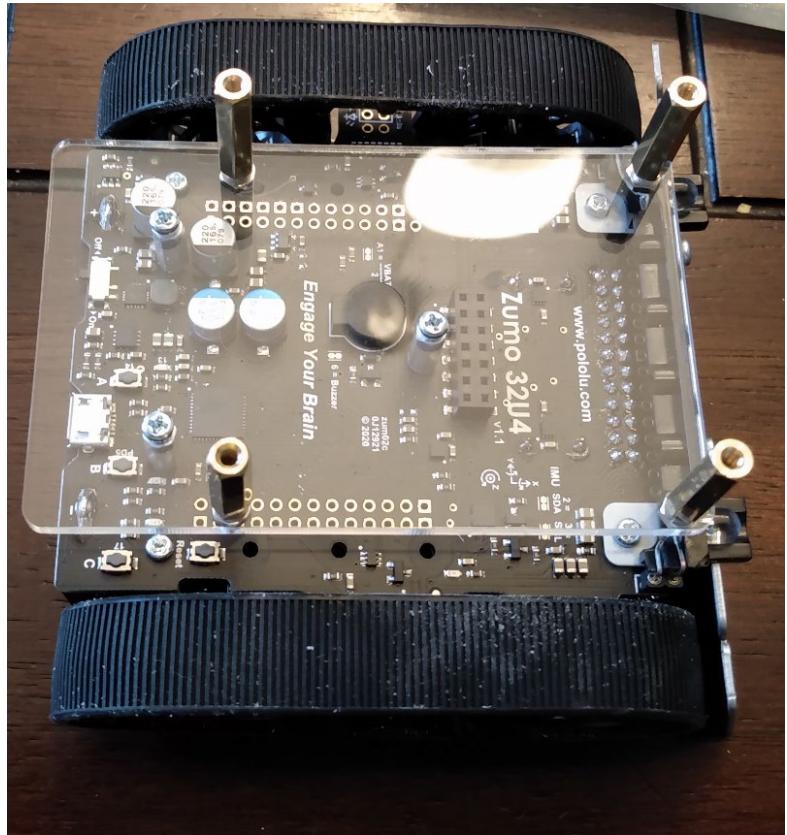
Ok Now you can put away your drill.

Assembly Time!

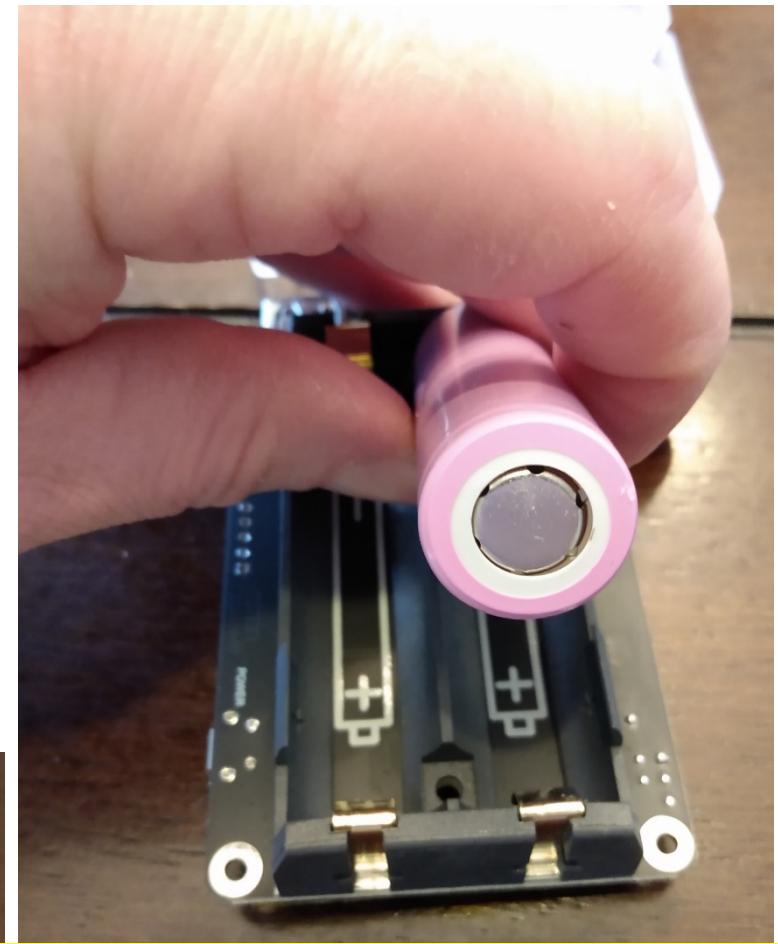




If the bumper end is not quite flush to the black plastic, pull the bottom of the bumper 'in' and snap the top down, then tighten the middle screw to hold it.

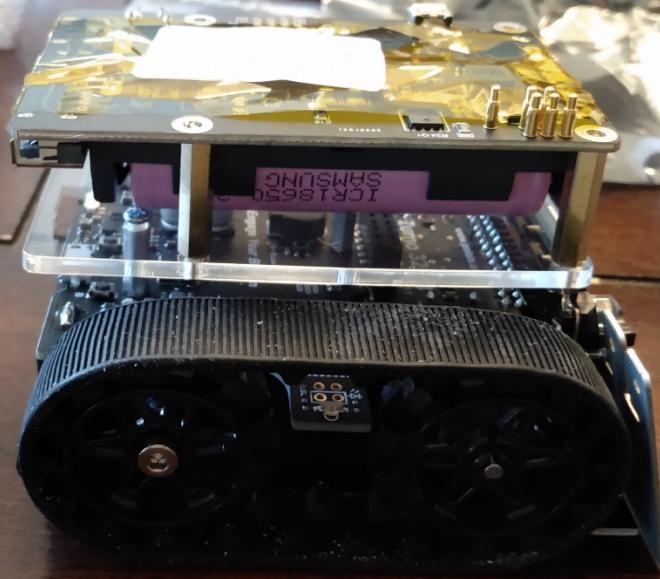


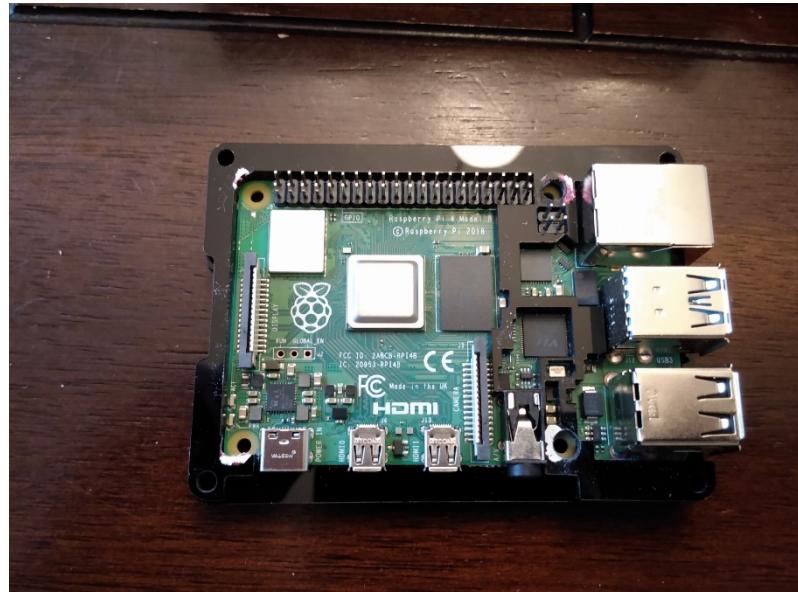
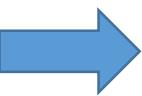
Take out the power supply from the ESD bag...



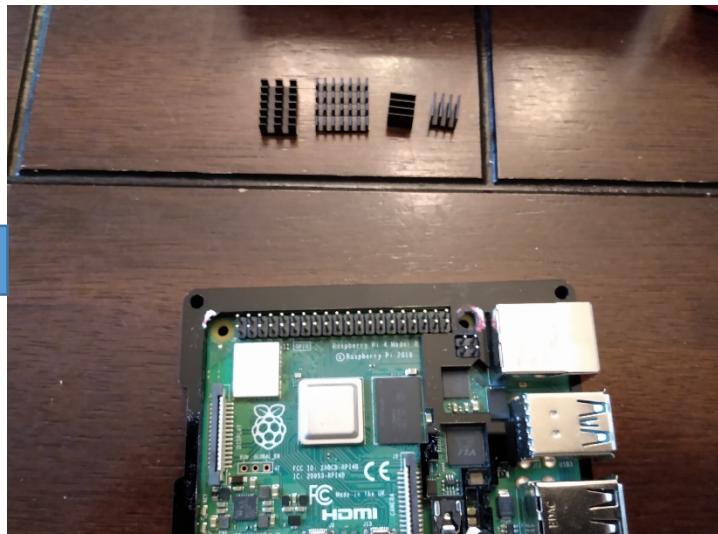
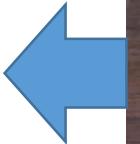
Be Very Careful about Orientation!!!
The end's look different and the
positive side has the ribbing.

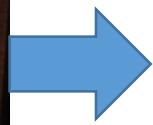
Failure to install correctly can cause a
fire...



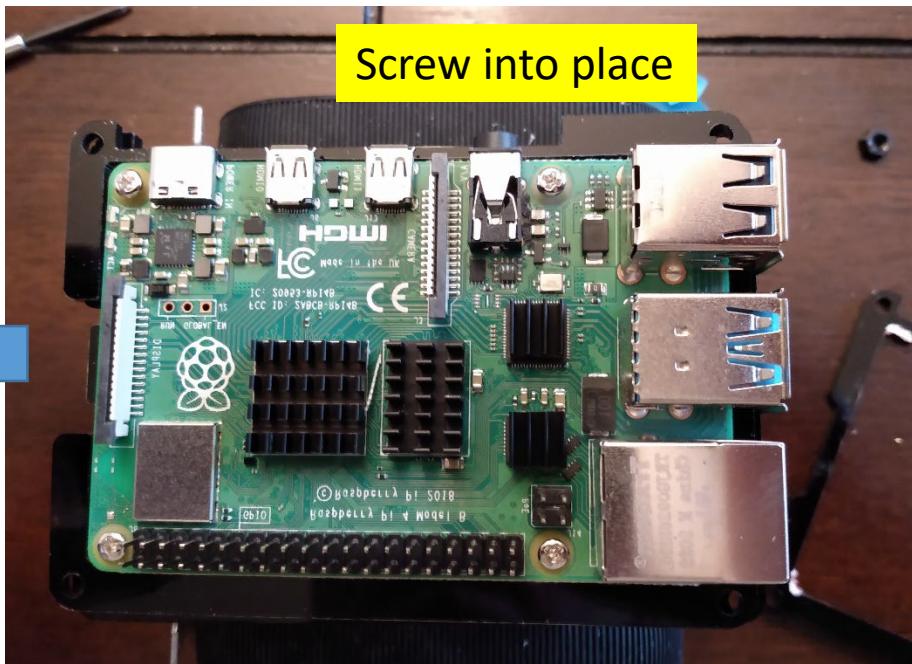
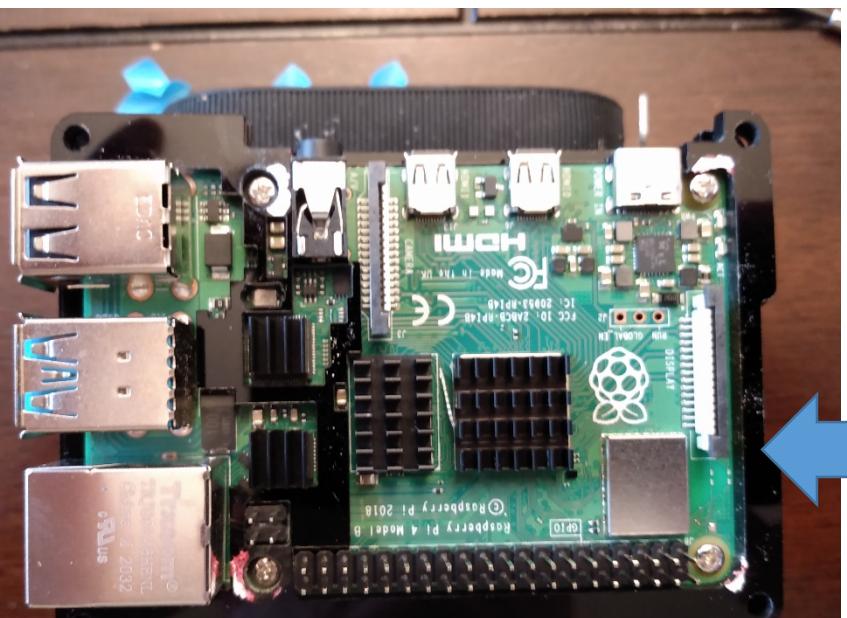


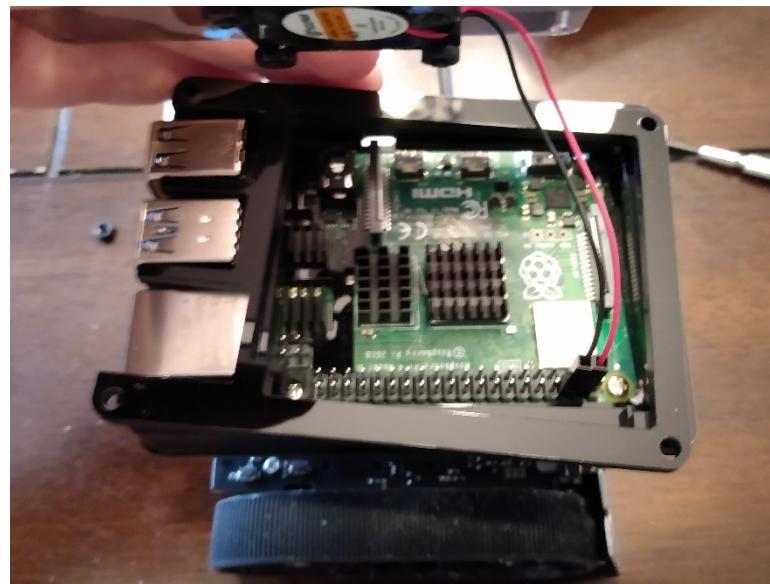
Install the heat sinks





Place Bottom frame on Battery Board







Use the provided setup
script to load your software.

Done!

